



1000  
 1020  
 1040  
 1060  
 1080  
 1100  
 1120  
 1140  
 1160  
 1180  
 1200  
 1220  
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 1280  
 1300  
 1320  
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 1360  
 1380  
 1400  
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 1440  
 1460  
 1480  
 1500  
 1520  
 1540  
 1560  
 1580  
 1600  
 1620





19



70 75 80  
 181 Gly Gly Cys Ala Gly Ala Ala Gly Gly Ala Ala Gly Thr Gly Thr  
 186  
 195 Ala Gly Cys Thr Gly Cys Thr Thr Ala Gly Ala Thr Gly Ala Ala  
 805 810 815  
 204 Gly Thr Cys Thr Thr Gly Gly Ala Cys Ala Thr Ala Ala Cys Ala  
 820 825 830  
 213 Cys Ala Ala Cys Ala Thr Gly Gly Gly Cys Ala Gly Thr Gly Ala  
 835 840 845  
 222 Thr Cys Ala Gly Gly Cys Ala Cys Cys Ala Thr Gly Gly Gly Ala  
 850 855 860  
 231 Ala Gly Thr Gly Ala Thr Thr Cys Ala Gly Ala Thr Gly Ala Ala Gly  
 870 875 880  
 240 Ala Gly Ala Ala Thr Gly Thr Gly Gly Cys Ala Gly Cys Ala Ala Gly  
 885 890 895  
 249 Ala Gly Cys Ala Thr Cys Cys Cys Cys Gly Gly Ala Gly Cys Cys Ala  
 900 905 910  
 258 Gly Ala Ala Cys Thr Cys Cys Ala Gly Cys Thr Cys Ala Gly Gly Cys  
 915 920 925  
 267 Cys Thr Thr Ala Cys Cys Ala Ala Ala Thr Gly Gly Ala Ala Gly Thr  
 930 935 940  
 276 Thr Gly Cys Cys Cys Ala Gly Cys Cys Ala Gly Cys Cys Thr Thr Gly  
 945 950 955 960  
 285 Gly Ala Ala Gly Gly Gly Ala Ala Gly Ala Ala Thr Ala Thr Cys Ala  
 965 970 975  
 294 Thr Cys Ala Thr Cys Thr Gly Cys Cys Thr Cys Cys Cys Thr Ala Cys  
 980 985 990  
 303 Ala Gly Gly Gly Ala Gly Thr Gly Gly Ala Ala Ala Ala Ala Cys Cys  
 995 1000 1005  
 312 Ala Gly Ala Gly Thr Gly Gly Cys Thr Gly Thr Thr Thr Ala Cys  
 1010 1015 1020  
 321 Ala Thr Thr Gly Cys Cys Ala Ala Gly Gly Ala Thr Cys Ala Cys  
 1025 1030 1035  
 330 Thr Thr Ala Gly Ala Cys Ala Ala Gly Ala Ala Gly Ala Ala Ala  
 1040 1045 1050  
 339 Ala Ala Ala Gly Cys Ala Thr Cys Thr Gly Ala Gly Cys Cys Thr  
 1055 1060 1065  
 348 Gly Gly Ala Ala Ala Ala Gly Thr Thr Ala Thr Ala Gly Thr Thr  
 1070 1075 1080  
 357 Cys Thr Thr Gly Thr Cys Ala Ala Thr Ala Ala Gly Gly Thr Ala  
 1085 1090 1095

Thr Thr	Gly Cys Thr Ala Gly	Thr Thr	Gly Ala Ala	Cys Ala Gly	1110
1112					
Thr Thr	Cys Thr Thr Cys Cys	Thr Thr	Ala Ala Gly	Gly Ala Gly	1125
1113					
Thr Thr	Cys Cys Ala Ala Cys	Thr Thr	Ala Thr Thr	Thr Thr Thr Gly	1140
1130					
Ala Ala	Gly Ala Ala Ala Thr	Thr Thr	Ala Thr	Thr Cys Gly Thr	1155
1140					
Gly Thr	Thr Ala Thr Thr Gly	Thr Thr	Ala Thr	Ala Ala Gly Thr	1170
1160					
Gly Gly	Thr Gly Ala Thr Ala	Thr Thr	Cys Cys Ala	Ala Cys Thr Gly	1185
1175					
Ala Ala	Ala Ala Thr Ala Thr	Thr Thr	Ala Thr Thr	Thr Cys Cys Ala	1200
1190					
Gly Ala	Ala Gly Thr Thr Gly	Thr Thr	Ala Ala	Gly Thr Cys Cys	1215
1205					
Thr Gly	Thr Gly Ala Thr Ala	Thr Thr	Ala Thr	Cys Ala Gly Thr	1230
1220					
Ala Cys	Ala Gly Cys Thr Cys	Ala Ala	Ala Thr	Cys Cys Thr Thr	1245
1235					
Gly Ala	Ala Ala Ala Cys Thr	Cys Cys	Cys Thr	Cys Thr Thr Ala	1260
1250					
Ala Ala	Cys Thr Thr Gly Gly	Ala Ala	Ala Ala	Thr Gly Gly Ala	1275
1265					
Gly Ala	Ala Gly Ala Thr Gly	Cys Thr	Gly Gly	Thr Gly Thr Thr	1290
1280					
Cys Ala	Ala Thr Thr Gly Thr	Cys Ala	Gly Ala	Cys Thr Thr Thr	1305
1295					
Thr Cys	Cys Cys Thr Cys Ala	Thr Thr	Ala Thr	Cys Ala Thr Thr	1320
1310					
Gly Ala	Thr Gly Ala Ala Thr	Gly Thr	Cys Ala	Thr Cys Ala Cys	1335
1325					
Ala Cys	Cys Ala Ala Cys Ala	Ala Ala	Gly Ala	Ala Gly Cys Ala	1350
1340					
Gly Thr	Gly Thr Ala Thr Ala	Ala Thr	Ala Ala	Cys Ala Thr Cys	1365
1355					
Ala Thr	Gly Ala Gly Gly Cys	Ala Thr	Thr Ala	Thr Thr Thr Gly	1380
1370					
Ala Thr	Gly Cys Ala Gly Ala	Ala Gly	Thr Thr	Gly Ala Ala Ala	1395
1385					
Ala Ala	Cys Ala Ala Thr Ala	Gly Ala	Cys Thr	Cys Ala Ala Gly	1410
1400					



Ala Ala	Ala Gly Ala Ala	Ala Ala	Gly Ala Ala Ala	Cys Cys Ala	1415	1425
Gly Thr	Gly Ala Thr Thr	Cys Cys	Cys Cys Thr Thr	Cys Cys Thr	1430	1440
Ala	Gly Ala Thr Ala	Cys Thr	Gly Gly Gly Ala	Cys Thr Ala	1445	1455
Cys	Ala Gly Cys Thr	Thr	Cys Ala Cys Cys	Thr Gly Gly Thr	1460	1470
Thr	Thr Gly Gly Ala	Gly	Gly Gly Cys Cys	Cys Ala Cys Gly	1475	1485
Ala Ala	Gly Cys Ala Ala	Gly	Cys Cys Ala Ala	Ala Gly Cys Thr	1490	1500
Gly Ala	Ala Gly Ala Ala	Cys Ala	Cys Ala Thr Thr	Thr Thr Thr Ala	1505	1515
Ala Ala	Ala Cys Thr Ala	Thr	Gly Thr Gly Cys	Cys Ala Ala Thr	1520	1530
Thr	Thr Gly Ala Thr	Gly	Ala Thr Thr Thr	Thr Ala Cys Thr	1535	1545
Ala Thr	Thr Ala Ala Ala	Ala	Cys Thr Gly Thr	Thr Ala Ala Ala	1550	1560
Gly Ala	Ala Ala Ala Cys	Cys	Thr Thr Gly Ala	Thr Cys Ala Ala	1565	1575
Cys Thr	Gly Ala Ala Ala	Ala	Ala Cys Cys Ala	Ala Ala Thr Ala	1580	1590
Cys Ala	Gly Gly Ala Gly	Cys	Cys Ala Thr Gly	Cys Ala Ala Gly	1595	1605
Ala Ala	Gly Thr Thr Thr	Gly	Cys Cys Ala Thr	Thr Gly Cys Ala	1610	1620
Ala	Thr Gly Cys Ala	Ala	Cys Cys Ala Gly	Ala Gly Ala Ala	1625	1635
Gly Ala	Thr Cys Cys Ala	Thr	Thr Thr Ala Ala	Ala Gly Ala Gly	1640	1650
Ala Ala	Ala Cys Thr Thr	Cys	Thr Ala Gly Ala	Ala Ala Thr Ala	1655	1665
Ala Thr	Gly Ala Cys Ala	Ala	Gly Gly Ala Thr	Thr Cys Ala Ala	1670	1680
Ala Cys	Thr Thr Ala Thr	Thr	Gly Thr Cys Ala	Ala Ala Thr Gly	1685	1695
Ala Gly	Thr Cys Cys Ala	Ala	Thr Gly Thr Cys	Ala Gly Ala Thr	1700	1710
Thr Thr	Thr Gly Gly Ala Ala	Ala	Thr Thr Cys Ala Ala	Cys Cys Cys		

1911	1912	1913
Ala Ala Thr Gly Ala Ala Cys 1930	Ala Ala Thr Gly Gly 1935	Gly Cys Cys 1940
Ala Thr Thr Cys Ala Ala Ala 1945	Ala Thr Gly Gly Ala Ala 1950	Ala Ala Ala 1955
Ala Ala Ala Gly Cys Thr 1960	Gly Thr Ala Ala Ala Ala 1965	Ala Ala Ala 1970
Gly Gly Ala Ala Ala Thr Cys 1975	Gly Thr Ala Ala Ala Ala 1980	Gly Ala Ala 1985
Gly Thr Thr Gly Thr Thr Thr 1990	Gly Thr Gly Cys Ala 1995	Gly Ala Ala 2000
Ala Ala Thr Thr Thr Gly Ala 2005	Gly Gly Ala Ala Gly 2010	Thr Ala Cys 2015
Ala Ala Thr Gly Ala Gly Gly Cys 2020	Cys Cys Cys Thr Ala 2025	Cys Ala Ala 2030
Ala Thr Thr Ala Ala Thr Gly 2035	Ala Cys Ala Cys Ala 2040	Ala Thr Thr 2045
Ala Gly Ala Ala Thr Gly Ala 2050	Thr Ala Gly Ala Thr 2055	Cys Cys Gly 2060
Gly Thr Ala Thr Ala Cys 2065	Thr Cys Ala Thr Cys 2070	Thr Thr Gly 2075
Ala Ala Ala Cys Thr Thr Thr 2080	Gly Thr Ala Thr Ala 2085	Ala Thr Gly 2090
Ala Ala Gly Ala Gly Ala Ala 2095	Ala Gly Ala Thr Ala 2100	Ala Gly Ala 2105
Ala Gly Thr Thr Thr Gly Cys 2110	Ala Gly Thr Cys Ala 2115	Thr Ala Gly 2120
Ala Ala Gly Ala Thr Gly Ala 2125	Thr Ala Gly Thr Gly 2130	Ala Thr Gly 2135
Ala Gly Gly Gly Thr Gly Gly 2140	Thr Gly Ala Thr Gly 2145	Ala Thr Gly 2150
Ala Gly Thr Ala Thr Thr Gly 2155	Thr Gly Ala Thr Gly 2160	Gly Thr Gly 2165
Ala Thr Gly Ala Ala Gly Ala 2170	Thr Gly Ala Gly Gly 2175	Ala Thr Gly 2180
Ala Thr Thr Thr Ala Ala Ala 2185	Gly Ala Ala Ala Cys 2190	Cys Thr Thr 2195
Thr Gly Ala Ala Ala Cys Thr 2200	Gly Gly Ala Thr Gly 2205	Ala Ala Ala 2210
Ala Gly Ala Thr Ala Gly 2215	Ala Thr Thr Thr Cys 2220	Thr Cys Ala 2225

Ala Gly	Ala Cys	Thr Thr	Thr	Ala Thr	Thr Thr	Thr	Thr Thr	Gly	
1194			1197			1140			
Ala Ala	Ala Ala	Cys Ala	Ala	Thr Ala	Ala Ala	Ala	Thr Gly	Thr	
1145			1169			1155			
Ala Gly	Ala Ala	Ala Ala	Gly	Gly Thr	Thr Gly	Gly	Cys Thr	Gly	
1163			1165			1170			
Ala Ala	Ala Ala	Cys Thr	Cys	Ala Thr	Ala Ala	Thr	Ala Thr	Gly	
1171			1180			1185			
Ala Ala	Ala Ala	Thr Gly	Ala	Ala Ala	Ala Gly	Cys	Thr Gly	Ala	
1190			1195			1100			
Cys Cys	Ala Ala	Ala Thr	Thr	Ala Ala	Gly Ala	Ala	Ala Thr	Ala	
1198			1110			1115			
Cys Cys	Ala Thr	Ala Ala	Thr	Gly Gly	Ala Gly	Cys	Ala Ala	Thr	
1120			1125			1130			
Ala Thr	Ala Thr	Ala Ala	Gly	Gly Ala	Cys Thr	Gly	Ala Gly	Gly	
1135			1140			1145			
Ala Ala	Thr Cys	Ala Gly	Cys	Ala Thr	Gly Ala	Gly	Gly Ala	Ala	
1150			1155			1160			
Ala Ala	Ala Thr	Cys Thr	Thr	Thr Ala	Cys Ala	Ala	Ala Ala	Ala	
1165			1170			1175			
Ala Ala	Cys Gly	Ala Cys	Ala	Gly Ala	Gly Thr	Gly	Cys Ala	Thr	
1180			1185			1190			
Ala Thr	Gly Cys	Gly Cys	Thr	Thr Thr	Cys Cys	Cys	Ala Gly	Thr	
1195			1200			1205			
Gly Gly	Ala Thr	Thr Ala	Cys	Thr Thr	Ala Ala	Ala	Ala Thr	Gly	
1210			1215			1220			
Ala Ala	Ala Ala	Ala Thr	Thr	Thr Thr	Cys Thr	Gly	Ala Ala	Gly	
1225			1230			1235			
Ala Ala	Gly Gly	Ala Gly	Thr	Cys Ala	Ala Ala	Gly	Cys Cys	Cys	
1240			1245			1250			
Cys Cys	Cys Ala	Thr Cys	Thr	Gly Ala	Thr Thr	Gly	Gly Ala	Gly	
1255			1260			1265			
Thr Thr	Gly Gly	Ala Cys	Ala	Thr Ala	Gly Cys	Ala	Gly Thr	Gly	
1270			1275			1280			
Ala Gly	Thr Thr	Cys Ala	Ala	Ala Cys	Cys Cys	Ala	Thr Gly	Ala	
1285			1290			1295			
Cys Ala	Cys Ala	Gly Ala	Ala	Thr Gly	Ala Ala	Cys	Ala Ala	Ala	
1300			1305			1310			
Ala Ala	Gly Ala	Ala Gly	Thr	Thr Ala	Thr Thr	Ala	Gly Thr	Ala	
1315			1320			1325			
Ala Ala	Thr Thr	Thr Cys	Gly	Thr Ala	Cys Thr	Gly	Gly Ala	Ala	
1330			1335			1340			

Ala Thr	Ala Thr	Gly Ala	Ala Thr	Gly Cys	Thr Thr	Ala	2315
Thr Gly	Gly Thr	Thr Ala	Gly Thr	Ala Thr	Gly Thr	Gly	2370
Gly Ala	Gly Ala	Ala Gly	Ala Thr	Gly Thr	Cys Thr	Gly	2385
Ala Thr	Ala Thr	Thr Ala	Ala Thr	Ala Thr	Thr Thr	Ala	2400
Ala Thr	Ala Thr	Thr Gly	Thr Thr	Ala Thr	Cys Cys	Gly Thr	2415
Ala Thr	Gly Gly	Thr Cys	Thr Thr	Gly Thr	Cys Ala	Cys Cys	2430
Ala Thr	Gly Ala	Ala Ala	Thr Thr	Gly Thr	Cys Cys	Ala Thr	2445
Thr Thr	Gly Ala	Gly Gly	Cys Thr	Gly Thr	Gly Thr	Cys	2460
Gly Ala	Gly Thr	Gly Ala	Gly Thr	Gly Thr	Ala Thr	Gly	2475
Ala Gly	Ala Gly	Cys Ala	Cys Thr	Ala Thr	Cys Gly	Thr Cys	2490
Thr Gly	Gly Thr	Thr Gly	Cys Thr	Ala Thr	Cys Ala	Gly Thr	2505
Gly Thr	Thr Cys	Ala Gly	Gly Thr	Ala Thr	Ala Thr	Cys Gly	2520
Ala Ala	Cys Ala	Thr Gly	Ala Thr	Ala Thr	Gly Thr	Thr Thr	2535
Ala Thr	Gly Ala	Thr Thr	Thr Thr	Gly Thr	Ala Thr	Ala Gly	2550
Thr Gly	Ala Thr	Gly Ala	Thr Thr	Ala Thr	Ala Thr	Ala Gly	2565
Gly Thr	Ala Thr	Ala Cys	Ala Thr	Ala Thr	Gly Thr	Thr Thr	2580
Ala Ala	Ala Ala	Thr Ala	Thr Thr	Ala Thr	Cys Cys	Ala Gly	2595
Ala Gly	Gly Ala	Gly Thr	Ala Thr	Gly Thr	Cys Thr	Ala Thr	2610
Ala Gly	Ala Thr	Thr Thr	Thr Thr	Gly Thr	Ala Thr	Thr Ala	2625
Ala Gly	Ala Thr	Gly Thr	Ala Thr	Ala Thr	Ala Thr	Ala Ala	2640
Thr Gly	Gly Ala	Ala Ala	Ala Thr	Ala Thr	Ala Thr	Thr Gly	2655

1961	Ala Cys Cys Ala Ala	1970	Gly Ala Ala Ala Thr Ala
1962	Gly Cys Cys Ala Ala	1971	Ala Thr Thr Ala Cys Ala
1963	Ala Thr Ala Ala Ala	1972	Gly Thr Ala Thr Cys Ala Thr
1964	Ala Thr Ala Ala Cys	1973	Thr Thr Thr Cys Cys Thr Thr Thr
1965	Ala Ala Ala Ala Ala	1974	Gly Thr Gly Cys Ala Gly Thr Gly
1966	Gly Thr Ala Gly Cys	1975	Gly Thr Gly Thr Cys Thr Gly
1967	Gly Ala Ala Gly Ala	1976	Ala Thr Cys Cys Ala Thr Gly
1968	Ala Thr Thr Gly Ala	1977	Gly Ala Ala Ala Ala Thr Gly Cys
1969	Gly Ala Cys Gly Thr	1978	Ala Ala Thr Ala Thr Gly Ala
1970	Cys Cys Ala Gly Ala	1979	Ala Thr Thr Cys Ala Ala Gly Gly
1971	Cys Thr Thr Thr Ala	1980	Ala Thr Thr Gly Thr Ala Ala
1972	Gly Ala Ala Ala Ala	1981	Gly Ala Ala Ala Gly Cys Ala Thr
1973	Cys Ala Ala Ala Ala	1982	Gly Thr Gly Thr Gly Thr Thr Gly
1974	Gly Ala Cys Thr Ala	1983	Thr Cys Ala Ala Ala Thr Ala Ala
1975	Gly Gly Thr Gly Ala	1984	Ala Ala Thr Cys Ala Thr Cys Thr
1976	Ala Ala Ala Thr Gly	1985	Thr Gly Gly Cys Cys Ala Gly Gly
1977	Thr Gly Gly Gly Gly	1986	Ala Ala Cys Ala Ala Thr Gly Ala
1978	Gly Thr Gly Cys Ala	1987	Ala Ala Ala Ala Gly Gly Cys Thr
1979	Gly Ala Thr Thr Thr	1988	Gly Cys Cys Thr Thr Gly Thr Cys
1980	Ala Ala Ala Ala Thr	1989	Ala Ala Gly Gly Ala Ala Thr Thr



